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(54) Title: DISALICYLATE ANALOG BASED SIALYL LEWIS^x MIMETICS

(57) Abstract

The present invention discloses medicaments that are selectin–ligand structural mimetics that bind to certain selectins wherein the mimetics may lack the sialic acid and/or fucose of the natural selecting ligand, sialyl Lewis^x (sLe^x), but have a structure capable of mimicking the structural features necessary for selectin recognition. In particular, the invention compounds mimic the key structural features of the oligosaccharides responsible for selectin–mediated cell adhesion. These features consist of the charge–distance–coordination relationship between the carboxylic acid functionality of sialic acid at a distance of 8–12 angstroms of the L–fucose moiety. The invention compounds are disalicylate, its analogs, and disalicylate–based C–glycoside compounds. The present invention also discloses methods of treating selectin–mediated disorders comprising administering the compounds disclosed.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C07D309/10 A61K31/70

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	WO 94 18189 A (GLYCOMED INC) 18 August 1994 see examples 1-11 ---	1-25
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[X] Further documents are listed in the continuation of box C.

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Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA	Authorized officer
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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